WHAT IS CLAIMED IS:

- 1. A method for forming an azo colorant, wherein a coupler having a leaving group at a coupling position thereof and a diazo compound are used, and the method has a faster coupling reaction rate than an azo dye-forming reaction between the diazo compound and the coupler having a haydrogen atom at the coupling position.
- 2. A method for forming an azo colorant, wherein a coupler having a leaving group at a coupling position thereof and a diazo compound are used, and the method has a coupling reaction rate constant k of at least 0.1 $\rm s^{-1}$.
- 3. The method for forming an azo colorant according to claim 1, wherein the coupler has a structure represented by one of general formulae (1), (2), (3), (4), and (5) as follows.

in which X^1 , X^2 , X^3 , and X^4 each independently represents an atomic group necessary for forming a five-membered aromatic heteroring; Y represents one of a hydroxyl group, an amino group which may have a substituent, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R represents one of a hydroxyl group, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an amino group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; Z represents one of a hydroxyl group and an amino group which may have a substituent; Ar represents a benzene ring, naphthalene ring, pyridine ring or quinoline ring , each of which may have a substituent; L represents a substituent that is relesable at a time of coupling with the diazo compound; EWG1. EWG2 and EWG3 each independently represents an electron-attractive group; and pairs, X1 and Y, EWG1

and EWG^2 , and Y and R may each link with each other to form a ring.

4. The method for forming an azo colorant according to claim 3, wherein the diazo compound is a compound represented by one of general formulae (6), (7), and (8) as follows.

$$R^{1}$$
 R^{2}
 N^{2}
 N^{2

$$Ar_1S \xrightarrow{R^8} N_2^+ X^-$$

in which, in general formulae (6) and (7): R¹ and R² each represents one of a hydrogen atom and an alkyl group which may have a substituent; R¹ and R² may link with each other to form a heterocycle; R¹ and R² cannot both be hydrogen atoms; R³ represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a

substituent, an arylthio group which may have a substituent, an alkylsulfonyl group which may have a substituent, and an arylsulfonyl group which may have a substituent; R4 represents one of a hydrogen atom, an alkyl group which may have a substituent, and an alkoxy group which may have a substituent; R5 represents one of a hydrogen atom and an alkyl group which may have a substituent; R6 and R7 each represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; R6 and R7 may be the same and may be different from each other; and X represents an acid anion, and

in the general formula (8): Ar¹ represents an aryl group which may have a substituent; R³ and R9 each represents one of an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R³ and R9 may be the same and may be different from each other; and X represents an acid anion.

5. The method for forming an azo colorant according to claim 2, wherein the coupler has a structure

represented by one of general formulae (1), (2), (3), (4), and (5) as follows.

$$\begin{array}{ccc}
EWG^{3} & & & \\
Y & R & & \\
(4) & & (5)
\end{array}$$

in which x^1 , x^2 , x^3 , and x^4 each independently represents an atomic group necessary for forming a five-membered aromatic heteroring; Y represents one of a hydroxyl group, an amino group which may have a substituent, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R represents one of a hydroxyl group, an alkyl group which may have a

substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an amino group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; Z represents one of a hydroxyl group and an amino group which may have a substituent; Ar represents a benzene ring, naphthalene ring, pyridine ring or quinoline ring, each of which may have a substituent; L represents a substituent that is relesable at a time of coupling with the diazo compound; EWG¹, EWG² and EWG³ each independently represents an electron-attractive group; and pairs, X¹ and Y, EWG¹ and EWG², and Y and R may each link with each other to form a ring.

6. The method for forming an azo colorant according to claim 5, wherein the diazo compound is a compound represented by one of general formulae (6), (7), and (8) as follows.

$$R^{1}$$
 R^{2}
 N
 N_{2}^{+}
 N^{-}
 R^{5}
 N_{2}^{+}
 N_{2}^{+}
 N_{2}^{+}
 N_{2}^{+}
 N_{2}^{+}
 N_{3}^{-}
 N_{2}^{+}
 N_{3}^{-}
 N_{2}^{+}
 N_{3}^{-}
 N_{2}^{+}
 N_{3}^{-}
 N_{3}^{-}
 N_{3}^{-}
 N_{4}^{-}
 N_{3}^{-}
 N_{3}^{-}
 N_{3}^{-}
 N_{4}^{-}
 N_{3}^{-}
 N_{4}^{-}
 N_{3}^{-}
 N_{4}^{-}
 N_{5}^{-}
 N_{5

$$Ar_1S \xrightarrow{\mathbb{R}^8} \mathbb{N}_2^+ X^-$$

in which, in general formulae (6) and (7): R1 and R² each represents one of a hydrogen atom and an alkyl group which may have a substituent; R1 and R2 may link with each other to form a heterocycle; R1 and R2 cannot both be hydrogen atoms; R3 represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, an arylthio group which may have a substituent, an alkylsulfonyl group which may have a substituent, and an arylsulfonyl group which may have a substituent; R4 represents one of a hydrogen atom. an alkyl group which may have a substituent, and an alkoxy group which may have a substituent; represents one of a hydrogen atom and an alkyl group which may have a substituent; R⁶ and R⁷ each represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group

which may have a substituent, and an arylthio group which may have a substituent; R^6 and R^7 may be the same and may be different from each other; and X^7 represents an acid anion, and

in the general formula (8): Ar¹ represents an aryl group which may have a substituent; R⁵ and R⁵ each represents one of an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R⁵ and R⁵ may be the same and may be different from each other; and X represents an acid anion.

- 7. The method for forming an azo colorant according to claim 1, wherein a reducing agent is utilized.
- 8. The method for forming an azo colorant according to claim 1, wherein a base is utilized.
- 9. The method for forming an azo colorant according to claim 3, wherein, in the general formulae (1), (2), (3), (4), and (5), L is one of a halogen atom, an alkylthio group which may have a substituent, an arylthio group which may have a substituent, an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an aryloxy group which may have

a substituent, an acyloxy group which may have a substituent, a benzoyloxy group which may have a substituent, a dialkylaminocarbonyloxy group which may have a substituent, a diarylaminocarbonyloxy group which may have a substituent, an alkoxycarbonyloxy group which may have a substituent, an aryloxycarbonyloxy group which may have a substituent, an aryloxycarbonyloxy group which may have a substituent, an N-pyrazolyl group which may have a substituent, an N-imidazoyl group which may have a substituent, and an N-benzotriazolyl group which may have a substituent.

- 10. The method for forming an azo colorant according to claim 2, wherein a reducing agent is utilized.
- 11. The method for forming an azo colorant according to claim 2, wherein a base is utilized.
- 12. The method for forming an azo colorant according to claim 5, wherein, in the general formulae (1), (2), (3), (4), and (5), L is one of a halogen atom, an alkylthio group which may have a substituent, an arylthio group which may have a substituent, an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an aryloxy group which may have a substituent, an acyloxy group which may have a substituent, an acyloxy group which may have a substituent, a benzoyloxy group which may have a

substituent, a dialkylaminocarbonyloxy group which may have a substituent, a diarylaminocarbonyloxy group which may have a substituent, an alkoxycarbonyloxy group which may have a substituent, an aryloxycarbonyloxy group which may have a substituent, an N-pyrazolyl group which may have a substituent, an N-imidazoyl group which may have a substituent, an N-benzotriazolyl group

- 13. A recording material comprising a support and, on the support, at least one recording layer containing a diazo compound and a coupler which reacts with the diazo compound for developing color, wherein the coupler has a leaving group at a coupling position thereof.
- 14. A recording material comprising a support and, on the support, at least one recording layer containing a diazo compound and a coupler, which reacts with the diazo compound for developing color, wherein the coupler has a leaving group at a coupling position thereof, the diazo compound and the coupler have a faster coupling reaction rate therebetween than in a case of the coupler having a hydrogen atom at a coupling position, and a coupling reaction rate constant k therebetween is at least 0.1 s⁻¹.
 - 15. The recording material according to claim 13,

wherein the coupler has a structure represented by one of general formula (1), (2), (3), (4) and (5).

in which X¹, X², X³, and X⁴ each independently represents an atomic group necessary for forming a five-membered aromatic heteroring; Y represents one of a hydroxyl group, an amino group which may have a substituent, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R represents one of a hydroxyl group, an alkyl group which may have a substituent, an aryloxy group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an aryloxy group which may have a substituent, an aryloxy group which may have a substituent, an amino group which

may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; Z represents one of a hydroxyl group and an amino group which may have a substituent; Ar represents a benzene ring, naphthalene ring, pyridine ring or quinoline ring, each of which may have a substituent; L represents a substituent that is relesable at a time of coupling with the diazo compound; EWG¹, EWG² and EWG³ each independently represents an electron-attractive group; and pairs, X¹ and Y, EWG¹ and EWG², and Y and R may each link with each other to form a ring.

16. The recording material according to claim 15, wherein the diazo compound is represented by one of general formula (6), (7) and (8).

$$R^{1}$$
 R^{2}
 N^{2}
 N_{2}^{+}
 N_{2

$$Ar_1S \xrightarrow{R^9} N_2^+ X^-$$

in which, in general formulae (6) and (7): R1 and R² each represents one of a hydrogen atom and an alkyl group which may have a substituent; R1 and R2 may link with each other to form a heterocycle; R1 and R2 cannot both be hydrogen atoms; R3 represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, an arylthio group which may have a substituent, an alkylsulfonyl group which may have a substituent, and an arylsulfonyl group which may have a substituent; R4 represents one of a hydrogen atom, an alkyl group which may have a substituent, and an alkoxy group which may have a substituent; represents one of a hydrogen atom and an alkyl group which may have a substituent; R⁶ and R⁷ each represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; R⁶ and R⁷ may be the same and may be different from each other; and X represents an acid anion, and

in the general formula (8): Ar1 represents an

aryl group which may have a substituent; R⁸ and R⁹ each represents one of an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R⁸ and R⁹ may be the same and may be different from each other; and X² represents an acid anion.

17. The recording material according to claim 13, wherein the diazo compound is contained in a microcapsule.

18. The recording material according to claim 14, wherein the coupler has a structure represented by one of general formula (1), (2), (3), (4) and (5).

$$EWG^{3}$$

$$Z-Ar-L$$

$$(4)$$

$$(5)$$

in which X^1 , X^2 , X^3 , and X^4 each independently

represents an atomic group necessary for forming a five-membered aromatic heteroring; Y represents one of a hydroxyl group, an amino group which may have a substituent, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R represents one of a hydroxyl group, an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an amino group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; Z represents one of a hydroxyl group and an amino group which may have a substituent; Ar represents a benzene ring, naphthalene ring, pyridine ring or quinoline ring , each of which may have a substituent; L represents a substituent that is relesable at a time of coupling with the diazo compound; EWG1, EWG2 and EWG3 each independently represents electron-attractive group; and pairs, X1 and Y, and EWG2, and Y and R may each link with each other to form a ring.

19. The recording material according to claim 18, wherein the diazo compound is represented by one of

general formula (6), (7) and (8).

$$R^{1}$$
 R^{2}
 N
 R^{4}
 R^{4}
 R^{6}
 R^{7}
 R^{7}

$$Ar_1S \xrightarrow{R^8} N_2^+ X^-$$

in which, in general formulae (6) and (7): R¹ and R² each represents one of a hydrogen atom and an alkyl group which may have a substituent; R¹ and R² may link with each other to form a heterocycle; R¹ and R² cannot both be hydrogen atoms; R³ represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, an arylthio group which may have a substituent, an alkylsulfonyl group which may have a substituent, and an arylsulfonyl group which may have a substituent; R⁴ represents one of a hydrogen atom, an alkyl group which may have a substituent; R⁴ represents one of a hydrogen atom,

alkoxy group which may have a substituent; R⁵ represents one of a hydrogen atom and an alkyl group which may have a substituent; R⁶ and R⁷ each represents one of an alkyl group which may have a substituent, an alkoxy group which may have a substituent, an aryloxy group which may have a substituent, an alkylthio group which may have a substituent, and an arylthio group which may have a substituent; and an arylthio group which may have a substituent; R⁶ and R⁷ may be the same and may be different from each other; and X represents an acid anion, and

in the general formula (8): Ar¹ represents an aryl group which may have a substituent; R³ and R9 each represents one of an alkyl group which may have a substituent, an aryl group which may have a substituent, an alkoxy group which may have a substituent, and an aryloxy group which may have a substituent; R³ and R9 may be the same and may be different from each other; and X¹ represents an acid anion.

20. The recording material according to claim 14, wherein the diazo compound is contained in a microcapsule.